

iSCSI Driver for HP-UX 11.0 Frequently Asked Questions

Document ID: 30006

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Related Information

Introduction

The term SN 5400 is used generically throughout this document to refer to any storage router product in the SN 5400 family (SN 5428-2 or SN 5428). There is a separate Frequently Asked Question (FAQ) document for each iSCSI driver and the SN 5400 itself. Typical subjects covered in these FAQs are installation questions, system requirements, and product compatibility.

This document was originally written for version 3.1.1 of the HP-UX 11.0 driver. The majority of this information is applicable to newer or older versions of the driver. There may, however, be slight operational differences between driver versions, which may result in behaviors inconsistent with what is described in this document.

Q. How do I find out what version of the driver I am currently running?

A. The driver version currently running on the HP-UX system can be found by issuing the

`swlist` or `iscsid -v` commands.

Q. What is the most currently available version of the driver?

A. The most current version of the driver can be found at the Cisco iSCSI Drivers (registered customers only) page on Cisco.com.

Q. Is there a README file associated with the driver?

A. Yes. The README file is included in the driver tar file. You can download the tar file from the Cisco iSCSI Drivers (registered customers only) page on Cisco.com, and extract the README by untarring the file. The README contains information about the license agreement, driver installation, configuration instructions, a technical overview of the driver architecture, and general system requirements.

Q. How do I download and install the most current version of the driver?

A. The directions for downloading, installing, and uninstalling the driver can be found in the *Installation Notes* section of the Release Notes for the Cisco iSCSI Driver for HP-UX 11.0.

Q. What are the HP-UX system requirements for installing the driver?

A. The operating system requirements and patch requirements are described in the *System Requirements* section of the Release Notes for the Cisco iSCSI Driver for HP-UX 11.0.

Q. What version of HP-UX does the driver work with?

A. The driver has been tested and works with the HP-UX 11.0 operating environment. Both 32 bit and 64 bit versions of this operating system are supported.

Q. Does the driver work in a multiprocessor system?

A. The driver has been designed to work in all uniprocessor and multiprocessor environments. Systems with more than four processors have not been tested, however, there are no known limits in the driver that would prevent it from working in such a configuration.

Q. Which host platforms does the driver work with?

A. The driver has been designed to work with all host systems running HP-UX.

Q. What are the known caveats with the current driver and which caveats have been resolved with the current driver?

A. The caveat information for all versions of the driver can be found in the *Caveats* section of the Release Notes for the Cisco iSCSI Driver for HP-UX 11.0.

Q. What version of the SN 5400 software is my driver compatible with?

A. Not all versions of driver code are interoperable with all versions of the SN 5400 code. To determine if your driver is interoperable with your SN 5400, use the table below.

Driver Version	SN 5428 Version	Compatible
1.8.x	1.a.b	Yes
1.8.x	2.a.b	No
1.8.x	3.a.b	No
2.x.y	1.a.b	No
2.x.y	2.a.b	Yes
2.x.y	3.a.b	Yes
3.x.y	1.a.b	No
3.x.y	2.a.b	No
3.x.y	3.a.b	Yes

Q. Is the Cisco driver interoperable with other non-Cisco iSCSI target devices?

A. The Cisco driver has been written, tested, and qualified for use in a Cisco SN 5400 storage router environment. Any other use of this driver is not covered by any expressed or implied warranty by Cisco. Cisco will provide support for use of these drivers only in a Cisco SN 5400 environment.

Q. What Ethernet Network Interface Cards (NIC) and host applications have been tested with the driver and the Cisco SN 5400?

A. The list of equipment tested with the Cisco SN 5400 is included in the Interoperability Matrix document.

Q. What is the maximum number of Logical Unit Numbers (LUNs) per target supported by the driver?

A. The maximum number of LUNs per target is 8. Any devices with LUN IDs > 7 will be ignored by the driver and will not be configured in the system. This value is not user configurable.

Q. What is the maximum number of targets supported by the driver?

A. The maximum number of targets is 15. Any devices with target IDs > 14 will be ignored by the driver and will not be configured by the driver. This value is not user configurable.

Q. Does the mapping of the SCSI target to the physical storage device remain the same from one reboot to the next (persistent target binding)?

A. Yes. The ID assigned by the iSCSI driver to a particular iSCSI target configured on the SN 5400 will remain the same across reboots of the HP-UX system. This ID will remain the same unless the configuration on the SN 5400 is changed (DiscoveryIPAddress associated with GbE interface on the SN 5400 is changed or the iSCSI name of the target device on SN 5400 is changed), or the /etc/iscsi_bindings file on the HP-UX system has been manually edited.

Q. Where are the error or event messages from the iSCSI driver logged?

A. All iSCSI driver error and event messages are sent to the syslog. The `/etc/syslog.conf` file is the main configuration file used by syslogd to determine how the various system messages are to be logged. Refer to the main page of the `syslog.conf` for a more detailed explanation of this process. If there are problems loading the iSCSI kernel module, diagnostic information will be placed in the `/var/log/iscsi.log` file.

Q. How do I get a list of all the iSCSI devices discovered by the driver?

A. The utility `lsscsi` provides information about all the iSCSI devices available to the driver.

Q. Is it required to restart the iSCSI driver if a new target is added to the SN 5400 when the driver is already connected to the SN 5400?

A. No. The iSCSI driver will automatically configure the new target in the system provided access is granted to the HP-UX host system for the new target.

Q. What are the all utilities associated with the iSCSI driver?

A. The complete list, along with a detailed description for each of the iSCSI utilities, is provided in the *iSCSI Command and Utilities* section of the driver README file.

Related Information

- **Cisco iSCSI Driver Release Notes**
- **Cisco iSCSI Driver Software Downloads**
- **Technical Support – Cisco Systems**

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Updated: Oct 28, 2005

Document ID: 30006
